

Superconducting nanowires

Thursday 23 January 2025 16:00 (45 minutes)

Superconducting nanowire detector development has culminated in demonstrations towards a broad range of applications. They are capable of detecting photons (X-ray to far-infrared), low energy electrons, ions and neutral molecules and most recently have been tested for relativistic particle detection. This talk will start with a review of the operating principle of these detectors and how they are fabricated and integrated into systems. We will then review some of the state-of-the-art measurements as well as their current and potential future applications.

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